

Material Safety Data Sheet



Zep Inc.
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1-877-I-BUY-ZEP (428-9937)
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Section 1. Chemical Product and Company Identification

Product name FS FLOOR SCRUB
Product use Food Industry Floor Cleaner
Product code 2469
Date of issue 04/22/09 **Supersedes** 07/26/06

Emergency Telephone Numbers

For MSDS Information:

Compliance Services 1-877-I-BUY-ZEP (428-9937)

For Medical Emergency

(877) 541-2016 Toll Free - All Calls Recorded

For Transportation Emergency

CHEMTREC: (800) 424-9300 - All Calls Recorded
In the District of Columbia (202) 483-7616

Prepared By

Compliance Services
1420 Seaboard Industrial Blvd.
Atlanta, GA 30318

Section 2. Hazards Identification

Emergency overview

WARNING !

CAUSES EYE, SKIN AND RESPIRATORY TRACT IRRITATION.
HARMFUL IF ABSORBED THROUGH SKIN.

*Hazard Determination System (HDS): Health, Flammability, Reactivity

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NOTE: MSDS data pertains to the product as delivered in the original shipping container(s). Risk of adverse effects are lessened by following all prescribed safety precautions, including the use of proper personal protective equipment.

Acute Effects

Routes of Entry

Dermal contact. Eye contact. Inhalation.

- Eyes** Causes eye irritation. Inflammation of the eye is characterized by redness, watering and itching.
- Skin** Causes skin irritation. Harmful if absorbed through the skin. Skin inflammation is characterized by itching, scaling, or reddening.
- Inhalation** Avoid breathing vapors, spray or mists. Over-exposure by inhalation may cause respiratory irritation.
- Ingestion** Harmful if swallowed. May cause burns to mouth, throat and stomach.

Chronic effects

Repeated or prolonged contact with spray or mist may produce chronic eye irritation and severe skin irritation. Overexposure of this product by inhalation or absorption can produce central nervous system depression resulting in headache, nausea and/or dizziness. Contains material which may cause damage to the following organs: kidneys, lungs, liver, testes.

Carcinogenicity

No known significant effects or critical hazards.

Product/ingredient name

Additional Information: See Toxicological Information (Section 11)

Section 3. Composition/Information on Ingredients

Name of Hazardous Ingredients	CAS number	% by Weight
DIETHYLENE GLYCOL MONOMETHYL ETHER; 2-(2-meth-oxy)-ethanol; methyl carbitol	111-77-3	5 - 15
NONYLPHENOXY POLY(ETHYLENEOXY) ETHANOL - npe; poly(oxy-1,2-ethanediyl)	9016-45-9	1 - 10
alpha-(nonylphenyl)-omega-hydroxy		
SODIUM DODECYLBENZENE SULFONATE; linear alkyl aryl sodium sulfonate; Sodium	25155-30-0	<5
DDBSA		
SODIUM SILICATE; water glass	1344-09-8	<5
TETRASODIUM ETHYLENEDIAMINE TETRAACETATE; ethylenediamine tetraacetic	64-02-8	<5
acid; tetrasodium salt		
MONOETHANOLAMINE; 2-aminoethanol; MEA	141-43-5	<3

Section 4. First Aid Measures

Eye Contact	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention immediately.
Skin Contact	Flush affected skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Get medical attention if irritation develops.
Inhalation	Move exposed person to fresh air. If irritation persists, get medical attention.
Ingestion	Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. If affected person is conscious, give plenty of water to drink. Get medical attention immediately.

Section 5. Fire Fighting Measures

National Fire Protection Association (U.S.A.)



Flash Point	None.
Flammable Limits	Not available.
Flammability	Not available.
Fire hazard	In a fire or if heated, a pressure increase will occur and the container may burst.
Fire-Fighting Procedures	Use an extinguishing agent suitable for the surrounding fire.

Section 6. Accidental Release Measures

Spill Clean up	Put on appropriate personal protective equipment (see section 8). Move containers from spill area. Dilute with water and mop up if water-soluble or absorb with an inert dry material and place in an appropriate waste disposal container.
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Section 7. Handling and Storage

Handling	Put on appropriate personal protective equipment (see section 8). Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Do not reuse container. Wash thoroughly after handling.
Storage	Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Do not store in unlabeled containers. Keep out of the reach of children.

Section 8. Exposure Controls/Personal Protection**Product name**

SODIUM SILICATE; water glass

MONOETHANOLAMINE; 2-aminoethanol; MEA

Exposure limits**Supplier Suggested (United States).**CEIL: 2 mg/m³**OSHA PEL / ACGIH TLV (United States).**

TWA: 3 ppm 8 hour(s).

OSHA /ACGIH (United States).

STEL: 6 ppm 15 minute(s).

Personal Protective Equipment (PPE)

Eyes	Safety glasses.
Body	Wear appropriate protective clothing to prevent skin contact. Recommended: Neoprene gloves. Nitrile gloves. Rubber gloves.
Respiratory	Avoid breathing vapors, spray or mists. Use with adequate ventilation.

**Section 9. Physical and Chemical Properties**

Physical State	Liquid. [Thin liquid]	Color	Green.
pH	11.8 to 12.2	Odor	Mild.
Boiling Point	~104.4°C (~220°F)	Vapor Pressure	Not determined.
Specific Gravity	1.06	Vapor Density	Not determined.
Solubility	Easily soluble in the following materials: cold water and hot water.	Evaporation Rate	1 (Butyl acetate. = 1)
VOC (Consumer) 74.07 (g/l). 0.62 lbs/gal (7.00%)			

Section 10. Stability and Reactivity

Stability and Reactivity	The product is stable.
Incompatibility	Reactive or incompatible with the following materials: oxidizing materials and acids.
Hazardous Polymerization	Will not occur.
Hazardous Decomposition Products	carbon oxides (CO, CO ₂)

Section 11. Toxicological Information**Acute Toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
Diethylene Glycol Monomethyl Ether	LD50 Dermal	Rabbit	650 mg/kg	-
Nonylphenoxypoly(Ethyleneoxy)Ethano	LD50 Dermal	Rabbit	2000 mg/kg	-
	LD50 Oral	Rat	3310 mg/kg	-
Sodium Dodecylbenzene Sulfonate	LD50 Oral	Mouse	2000 mg/kg	-
	LD50 Oral	Rat	1260 mg/kg	-
Sodium Silicate	LD50 Oral	Rat	3300 mg/kg	-
Tetrasodium Ethylenediamine Tetraacetate	LD50 Oral	Rat	4100 mg/kg	-
Monoethanolamine	LD50 Dermal	Rabbit	>1000 mg/kg	-
	LD50 Oral	Rat	1720 mg/kg	-

Section 12. Ecological Information

Environmental Effects No known significant effects or critical hazards.

Aquatic Ecotoxicity

Not available.

Section 13. Disposal Considerations**Waste Information**

Waste must be disposed of in accordance with federal, state and local environmental control regulations. Consult your local or regional authorities for additional information.

Waste Stream Non-hazardous waste

Section 14. Transport Information

Regulatory information	UN number	Proper shipping name	Classes	PG*	Label
DOT Classification	Not regulated.	Not a DOT controlled material (United States).			
IMDG Class	Not determined.				

NOTE: DOT classification applies to most package sizes. For specific container size classifications or for size exceptions, refer to the Bill of Lading with your shipment.

PG* : Packing group

Section 15. Regulatory Information**U.S. Federal Regulations**

SARA 313 toxic chemical notification and release reporting:

Product name

Diethylene Glycol Monomethyl Ether

Clean Water Act (CWA) 307: No products were found.

Clean Water Act (CWA) 311: Sodium Dodecylbenzene Sulfonate

Clean Air Act (CAA) 112 regulated toxic substances: Diethylene Glycol Monomethyl Ether

All Components of this product are listed or exempt from listing on TSCA Inventory.

State Regulations

California Prop 65 No products were found.

Section 16. Other Information

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

*NOTE: Hazard Determination System (HDS) ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although these ratings are not required on MSDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HDS ratings are to be used with a fully implemented program to relay the meanings of this scale.